



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR,
PRUDENTIAL BUILDING,
195 NORTH TERRACE,
ADELAIDE

In reply quote No.

CEREALS

SOUTH AUSTRALIA

SEASON 1965-66

SCOPE

This Bulletin shows details of the South Australian cereal and hay harvests for the year ended 31st March 1966 as obtained from the annual collection of Agricultural and Pastoral Statistics.

SEASONAL CONDITIONS

Only light rains fell in April 1965 and general preparation and seeding were not commenced. However, general rains in May and June provided favourable conditions and, in most of the cereal growing areas of the State, seeding was completed by the end of this period. The continued favourable conditions in July and August consolidated harvest prospects and average yields were anticipated. During September and October the lack of rain and subsoil moisture caused a quick finish to the season, reducing yield prospects considerably, and although good rains fell in November, only late barley crops benefited. Rainfall over cereal growing areas during the growing period April to November 1965 was 12.81 inches, being more than 2 inches below average.

SUMMARY OF AREAS AND YIELDS

Reports at the beginning of the season indicated that farmers intended to sow approximately 2,872,000 acres of wheat, 1,231,000 acres of barley, and 1,220,000 acres of oats. The areas actually sown were 2,798,000 acres to wheat - an increase of 26,000 acres on the previous year, 1,150,000 acres to barley - an increase of 15,000 acres on the previous year, and 971,000 acres to oats - an increase of 20,000 acres.

The wheat crop of 40.0 million bushels harvested from 2.7 million acres was 12.8 million bushels less than the 52.8 million bushels harvested from approximately the same acreage in the 1964-65 season. The barley yield of 18.5 million bushels was 8.4 million bushels less than that for the previous year, while the yield of 5.6 million bushels of oats was almost 3.4 million bushels less than that harvested in the 1964-65 season.

The estimate of the combined yields of wheat, barley, and oats, for 1965-66 contained in my bulletin issued in January of this year was 64.5 million bushels. Actual yield for these three cereals was 64.1 million bushels - 24.6 million bushels less than in 1964-65.

TABLE 1 - CEREAL HARVEST, SOUTH AUSTRALIA, 1965-66

Crop	Area		Yield	
	Total Sown(a)	Sown for Grain (b)	Total	Per Acre
	'000 Acres		'000 Bushels	Bushels
Wheat	2,797.9	2,744.9	39,976.1	14.56
Barley	1,150.2	1,098.1	18,514.2	16.86
Oats	970.9	454.6	5,621.8	12.37
Rye	43.6	36.4	186.0	5.11
Field peas	32.9	29.9	241.9	8.09
	Area Cut		'000 Tons	Tons
Hay (all kinds)	298.6		367.7	1.23

- (a) Includes area sown for hay and forage.
(b) Includes crops which failed.

TABLE 2 - WHEAT, BARLEY, AND OATS: AREA AND YIELD, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1965-66

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
CENTRAL										
Adelaide	5,644	84,378	14.95	13,849	318,694	23.01	2,159	35,313	16.36	13.64
Carnarvon	2,008	45,846	22.83	4,300	92,438	21.50	12,411	325,845	26.25	17.23
Eyre	39,911	404,064	10.12	5,193	56,887	10.95	8,347	95,316	11.42	9.59
Fergusson	118,126	2,406,378	20.37	228,239	5,047,322	22.11	5,875	102,672	17.48	11.13
Gawler	106,064	1,608,897	15.17	52,229	634,075	12.14	10,356	74,529	7.20	9.64
Hindmarsh	6,499	116,019	17.85	10,870	222,854	20.50	7,066	155,427	22.00	10.99
Light	59,788	1,056,351	17.67	19,995	288,055	14.41	18,726	275,997	14.74	11.15
Sturt	59,551	941,280	15.81	30,186	420,906	13.94	10,561	138,795	13.14	9.30
LOWER NORTH										
Burra (incl. Kimberley)	25,899	361,287	13.95	1,047	11,909	11.38	7,979	63,180	7.92	11.61
Daly	245,965	4,608,207	18.74	105,539	1,922,247	18.21	17,366	213,219	12.28	9.98
Stanley	183,156	3,379,125	18.45	33,079	497,892	15.05	29,252	503,193	17.20	12.37
Victoria	146,347	2,069,193	14.14	33,384	414,763	12.42	15,625	160,584	10.28	10.97
UPPER NORTH										
Dalhousie	59,342	774,507	13.05	4,409	50,207	11.39	6,344	53,844	8.49	9.90
Frome	98,504	1,242,570	12.61	6,716	55,472	8.26	6,544	35,277	5.39	10.63
Newcastle	8,515	74,412	21.17	102	562	5.51	462	273	0.59	(b)
Other Counties	1,670	19,428	11.63	30	-	-	588	3,900	6.63	(b)
SOUTH EASTERN										
Buckingham	39,054	929,700	23.81	7,629	174,950	22.93	37,524	923,961	24.62	13.18
Cardwell	7,781	124,782	16.04	10,547	195,065	18.49	5,883	95,823	16.29	12.12
Grey	746	18,012	24.14	2,331	62,711	26.90	1,739	41,772	24.02	22.30
MacDonnell	4,719	104,274	22.10	1,572	37,951	24.14	7,492	173,031	23.10	17.08
Robe	2,964	47,814	16.13	1,793	29,951	16.70	7,127	168,342	23.62	17.65

TABLE 2 - WHEAT, BARLEY, AND OATS: AREA AND YIELD, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1965-66 (continued)

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	Area	Yield	Yield per Acre	
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
WESTERN										
Bosanquet	5,100	67,764	13.29	395	5,695	14.42	740	5,700	7.70	(b)
Buxton (incl. York)	124,037	1,904,160	15.35	4,961	64,393	12.98	14,951	115,647	7.74	9.75
Dufferin	56,747	624,018	11.00	2,570	31,765	12.36	16,324	88,137	5.40	7.89
Flinders	101,045	2,146,335	21.24	57,702	1,321,629	22.90	17,852	383,631	21.49	12.52
Hopetoun	5,049	13,527	2.68	533	737	1.38	2,838	3,015	1.06	(b)
Jervois	341,011	5,034,369	14.76	47,385	820,289	17.31	28,901	348,297	12.05	10.26
Kintore	16,407	46,863	2.86	524	1,771	3.38	10,635	6,759	0.64	7.10
Le Hunte	136,217	1,760,202	12.92	14,226	172,718	12.14	22,183	187,377	8.45	8.28
Musgrave (c)	79,063	1,395,960	17.66	44,797	966,295	21.57	11,891	181,275	15.24	12.26
Robinson	127,525	1,659,918	13.02	29,418	441,834	15.02	27,311	173,994	6.37	9.64
Way	76,594	377,904	4.93	2,121	11,313	5.33	25,180	69,096	2.74	6.52
MURRAY MALLEE										
Albert	115,947	975,588	8.41	29,996	294,388	9.81	11,018	64,371	5.84	7.72
Alfred	131,651	1,057,302	8.03	30,219	227,042	7.51	5,773	29,925	5.18	8.69
Buccleuch	69,888	712,791	10.20	154,618	2,151,803	13.92	22,656	166,542	7.35	10.17
Chandos	105,288	1,501,650	14.26	68,302	936,568	13.71	6,925	62,895	9.08	10.03
Hamley (incl. Young)	10,033	57,915	5.77	994	7,153	7.20	550	3,264	5.93	(b)
Russell	21,008	223,344	10.63	36,338	523,896	14.42	9,408	91,593	9.74	8.96
DIVISIONS										
Central	397,591	6,663,213	16.76	364,861	7,081,231	19.41	75,501	1,203,894	15.95	10.89
Lower North	601,367	10,417,812	17.32	173,049	2,846,811	16.45	70,222	940,176	13.39	10.99
Upper North	168,031	2,110,917	12.56	11,257	106,241	9.44	13,938	93,294	6.69	10.34
South Eastern	55,264	1,224,582	22.16	23,872	500,628	20.97	59,765	1,402,929	23.47	15.73
Western (c)	1,068,795	15,031,020	14.06	204,632	3,838,439	18.76	178,806	1,562,928	8.74	9.86
Murray Mallee	453,815	4,528,590	9.98	320,467	4,140,850	12.92	56,330	418,590	7.43	9.21
Outside of Counties	Included in County Musgrave - Western Division									
TOTAL STATE	2,744,863	39,976,134	14.56	1,098,138	18,514,200	16.86	454,562	5,621,811	12.37	10.49

(a) Rainfall over agricultural areas during the crop growing period April to November 1965. The figure for each county is obtained by averaging recorded rainfall at selected stations in crop growing areas; the figure for each division is an average of the results so obtained for each county in the division weighted by area under crop. All figures are preliminary and subject to revision.

(b) Not regarded as crop growing area.

(c) Includes Outside of Counties.

TABLE 3 - RYE, FIELD PEAS AND HAY: AREA AND YIELD, DIVISIONS, SOUTH AUSTRALIA, 1965-66

Division	Rye		Field Peas		Hay (All Kinds)	
	Area	Yield	Area	Yield	Area	Yield
	Acres	Bushels	Acres	Bushels	Acres	Tons
Central	918	6,918	13,905	82,052	115,754	153,768
Lower North	293	2,778	15,508	157,732	53,415	52,794
Upper North					10,703	8,131
South Eastern	60	810	197	1,435	63,331	93,139
Western (a)	902	3,249	100	239	23,452	23,739
Murray Mallee	34,222	172,218	201	420	31,959	36,142
Total State	36,395	185,973	29,911	241,878	298,614	367,713

(a) Includes "Outside of Counties".

AREAS SOWN
FOR ALL
PURPOSES

The following table shows acreages sown for all purposes (grain, hay, and forage) for the seasons 1962-63 to 1965-66 together with farmers' estimates of areas which they intended sowing for the current 1966-67 season. The greatest area ever sown to wheat in South

Australia was 4,507,213 acres in 1930-31. The area of barley increased steadily until 1958-59 when it nearly equalled that sown to wheat but since then areas sown to barley have declined relative to areas sown to wheat.

TABLE 5 - AREAS SOWN FOR ALL PURPOSES, SOUTH AUSTRALIA

Crop	1962-63	1963-64	1964-65	1965-66	1966-67(a)
	Acres				
Wheat	2,644,910	2,848,690	2,772,360	2,797,866	3,049,542
Barley	1,088,272	1,164,561	1,134,794	1,150,222	1,245,371
Oats	839,249	956,336	950,835	970,936	1,118,163
Rye	34,981	37,291	51,273	43,639	(b)
Field peas	35,881	32,785	36,468	32,916	33,215

(a) Acreages advised in the autumn as those intended to be sown in the 1966-67 season.

(b) Not available.

WHEAT

The wheat harvest for 1965-66 was 12,840,915 bushels less than the harvest of the previous year. During the 28 years to 1957-58 areas sown to wheat for grain declined generally from 4 million acres to 1.3 million but since 1957-58 this trend has been reversed. The area of wheat sown for grain in 1965-66 totalled 2.7 million acres. The best average yield was 23.56 bushels per acre in 1960-61.

Areas, yields, and yields per acre relating to South Australian wheat production for the years 1961-62 to 1965-66 are shown below.

TABLE 6 - WHEAT: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1961-62	1962-63	1963-64	1964-65	1965-66
Total Area	acre	2,269,548	2,644,910	2,848,690	2,772,360	2,797,866
Grain area	acre	2,229,211	2,595,145	2,802,258	2,726,826	2,744,863
Yield	bushel	33,854,157	38,338,860	53,971,269	52,817,049	39,976,134
Yield/acre	bushel	15.19	14.77	19.26	19.37	14.56

Varieties of wheat sown for all purposes for the years 1963-64 to 1965-66 are shown in the following table.

TABLE 7 - WHEAT: VARIETIES SOWN, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1963-64	1964-65	1965-66	1963-64	1964-65	1965-66
	Acres			Per Cent		
Beacon	1,930	2,558	2,433	0.07	0.09	0.09
Bencubbin (a)	30,358	21,277	15,340	1.07	0.77	0.55
Claymore	93,672	60,790	47,601	3.29	2.19	1.70
Dirk (a)	282,094	245,794	208,097	9.90	8.87	7.44
Falcon	1,504	1,754	3,803	0.05	0.06	0.14
Gabo	536,205	447,072	381,202	18.82	16.13	13.62
Gamenya	1,935	9,308	60,171	0.07	0.34	2.15
Heron	142,634	322,276	489,066	5.01	11.63	17.48
Insignia (a)	1,092,599	1,104,370	1,045,017	38.35	39.84	37.35
Javelin (a)	25,910	15,502	13,569	0.91	0.56	0.48
Mengavi	2,800	4,310	5,944	0.10	0.16	0.21
Olympic	11,482	11,109	13,357	0.40	0.40	0.48
Pinnacle	72,634	63,912	59,502	2.55	2.31	2.13
Quadrat	8,248	6,213	2,805	0.29	0.22	0.10
Rapier (a)	15,926	14,734	11,522	0.56	0.53	0.41
Raven	-	-	94,378	-	-	3.37
Reldep	4,401	2,897	2,813	0.15	0.10	0.10
Sabre	337,999	262,225	221,826	11.86	9.46	7.93
Scimitar (a)	21,265	15,342	10,420	0.75	0.55	0.37
Sherpa	5,621	2,965	2,864	0.20	0.11	0.10
Sword	3,587	4,242	3,295	0.13	0.15	0.12
Wongoondy	60,683	50,430	40,223	2.13	1.82	1.44
Yande	5,266	4,003	4,534	0.18	0.14	0.16
Other (incl. unspec.)	89,937	99,277	58,084	3.16	3.57	2.08
Total area	2,848,690	2,772,360	2,797,866	100.00	100.00	100.00

(a) Includes back cross.

BARLEY

The barley yield for 1965-66 of 18,514,200 bushels averaged 16.86 bushels per acre. The highest production recorded was 42,233,118 bushels in 1960-61, and the best average yield was 28.27 bushels per acre in 1958-59.

The following table shows details relating to South Australian barley production for the years 1961-62 to 1965-66.

TABLE 8 - BARLEY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1961-62	1962-63	1963-64	1964-65	1965-66
Total area	acre	1,294,028	1,088,272	1,164,561	1,134,794	1,150,222
Grain area	acre	1,270,904	1,052,886	1,123,104	1,094,740	1,098,138
Yield	bushel	21,292,421	18,004,881	24,336,555	26,931,735	18,514,200
Yield/acre	bushel	16.75	17.10	21.67	24.60	16.86

The area of barley sown for grain in 1965-66 totalled 1,098,138 acres, 1,056,115 acres of 2 row yielding 17,927,234 bushels and 42,023 acres of 6 row yielding 586,966 bushels.

The varieties of barley sown for all purposes for the years 1963-64 to 1965-66 are shown below.

TABLE 9 - BARLEY: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1963-64	1964-65	1965-66	1963-64	1964-65	1965-66
	Acres			Per Cent		
2 Row - Maltworthy	165,391	132,619	104,950	14.20	11.68	9.12
Noyep	144,366	203,551	221,738	12.40	17.94	19.28
Prior	743,171	693,890	727,738	63.82	61.15	63.27
Other 2 Row	52,784	51,091	39,829	4.53	4.50	3.46
6 Row - All kinds	58,849	53,643	55,967	5.05	4.73	4.87
Total area	1,164,561	1,134,794	1,150,222	100.00	100.00	100.00

OATS

The oats yield for 1965-66 was 5,621,811 bushels from 454,562 acres, a yield of 12.37 bushels per acre. Record production in South Australia was 11,992,155 bushels in 1958-59 when the record yield of 24.93 bushels per acre was obtained.

Details of oats production in South Australia for the years 1961-62 to 1965-66 are shown below.

TABLE 10 - OATS: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1961-62	1962-63	1963-64	1964-65	1965-66
Total area	acre	630,221	839,249	956,336	950,835	970,936
Grain area	acre	323,662	415,613	500,650	443,794	454,562
Yield	bushel	4,390,899	5,770,242	9,149,149	8,976,907	5,621,811
Yield/acre	bushel	13.57	13.88	18.27	20.23	12.37

Varieties of oats sown for all purposes for the seasons 1963-64 to 1965-66 are as follows:-

TABLE 11 - OATS: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1963-64	1964-65	1965-66	1963-64	1964-65	1965-66
	Acres			Per Cent		
Algerian	11,672	8,759	7,073	1.22	0.92	0.73
Avon	293,357	373,734	425,841	30.67	39.30	43.86
Ballidu	32,132	22,521	20,482	3.36	2.37	2.11
Belar	2,739	2,729	2,032	0.29	0.29	0.21
Fulghum	35,163	24,321	22,888	3.68	2.56	2.36
Kent	162,842	190,480	193,967	17.03	20.03	19.98
Kherson (incl. Early)	246,138	199,352	190,651	25.74	20.97	19.63
Kurrajong	15,017	11,631	9,286	1.57	1.22	0.95
New Zealand Cape	28,511	23,862	18,857	2.98	2.51	1.94
Orient	73,168	46,607	34,638	7.65	4.90	3.57
Other (incl. unspec.)	55,597	46,839	45,221	5.81	4.93	4.66
Total area	956,336	950,835	970,936	100.00	100.00	100.00

RYE

During 1965-66 the area of rye sown for all purposes was 43,639 acres. The 36,395 acres sown for grain yielded 185,973 bushels at an average yield per acre of 5.11 bushels.

FIELD
PEAS

From 29,911 acres planted for grain in the 1965-66 season 241,878 bushels were reaped, an average of 8.09 bushels per acre. In the 1964-65 season 495,965 bushels were obtained from 33,798 acres. In the autumn, farmers indicated that they intended sowing 33,215 acres in 1966-67 for grain or green forage.

Of the 32,916 acres sown in 1965-66 for all purposes 3,742 acres were sown to Collegian, 17,995 acres to Dun, 9,706 acres to White Brunswick, and 1,473 acres to other varieties.

HAY

The yield of hay (all kinds) in 1965-66 was 367,713 tons from 298,614 acres. The highest yield in recent seasons was 671,527 tons from 419,566 acres in 1958-59.

A summary of areas and production of hay for the years 1961-62 to 1965-66 is shown below.

TABLE 12 - HAY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1961-62	1962-63	1963-64	1964-65	1965-66
	Acres				
Area					
Wheaten	33,527	44,278	40,772	39,777	46,088
Oaten	82,664	116,351	140,666	110,128	111,818
Other	92,450	126,814	176,154	164,413	140,708
All kinds	208,641	287,443	357,592	314,318	298,614
	Tons				
Yield					
Wheaten	46,325	54,769	56,753	59,392	54,038
Oaten	101,933	147,399	185,435	157,325	117,567
Other	137,543	204,195	246,030	270,241	196,108
All kinds	285,801	406,363	488,218	486,958	367,713
Yield per acre					
Wheaten	1.38	1.24	1.39	1.49	1.17
Oaten	1.23	1.27	1.32	1.43	1.05
Other	1.49	1.61	1.40	1.64	1.39
All kinds	1.37	1.41	1.37	1.55	1.23

CEREALS
USED ON
FARMS

The following table shows details of cereals and hay used on farms for seed and feed purposes during the years 1964-65 and 1965-66.

TABLE 13 - CEREALS USED ON FARMS, SOUTH AUSTRALIA

Particulars	Unit	1964-65		1965-66	
		Seed	Feed	Seed	Feed
Wheat	bushel	3,061,857	900,033	3,026,283	848,766
Barley	"	1,338,369	2,421,533	1,317,274	2,511,284
Oats	"	1,111,243	3,468,679	1,073,623	3,271,904
Hay	ton	-	300,694	-	315,116

Farmers have reported that 2,860,398 bushels of wheat were retained on farms for 1966 seeding and that 649,839 bushels were being kept for feed purposes.

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AND GOVERNMENT STATIST

Commonwealth Bureau of Census & Statistics
ADELAIDE S.A.
26th October 1966.

